District I

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

District III

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE X\_Single Well
Establish Pre-Approved Pools

DISTRICT IV 20 S. St. Francis Dr., Sania Fe, NM #7505	APPLICATION FOR DOWNHOLE COMMINGLING  EXISTING WELLBORE  X YesNo								
MARBOB ENERGY CORPOR		X 227 ART	ESIA, N	M 8821	1-0027				
OD FEDERAL #3	0-34-17 Well No. Unit Letter	COUNTY	, NEW M	EXICO					
OGRID No. 14049 Property	Code 32848 API No. 30-0	015-34462 Lease Type:	X_Federal	State	Fee				
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	L	OWER ZO	ONE				
Pool Name	RED LAKE Q-GB-SA		RED LA	KE GLOR	IETA YESO				
Pool Code	51300		96 <b>836</b>						
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1928-2765' PERFORA	TED SECENCE	3060-3	3270' PE	RFORATED				
Method of Production (Flowing or Antificial Lift)	ARTIFICIAL LIFT	FEB 1 5 2006	ARTIFI	CIAL L	FT				
Bottomhole Pressure (Note: Pressure data will not be required if the bot perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	EST. 50 PSI PRODUCING BHP	OGU-METTE	[	100 PSI CING BHI					
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38 <b>.5°</b>		41.8°						
Producing, Shut-In or New Zone	NEW ZONE		COMPLE	ETION UN	IDERWAY				
Date and Oil/Gas/Water Rates Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: N/A Rates:	Date: Rates:	Date: 1	N/A					
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	'Óil	(	ìas				
than current or past production, supporting data or explanation will be required.)	71 % 68 %	% %	29	%	32 %				
	ADDITIO	ONAL DATA							
Are all working, royalty and overri	ding royalty interests identical in all c	commingled zones?		Yes X	No				
	nmingled zones compatible with each	-			No				
Will commingling decrease the val	-			-	No X				
or the United States Bureau of Lan	with, state or federal lands, has either d Management been notified in writin	ng of this application?			No				
NMOCD Reference Case No. appl	icable to this well:	PRE-APPROVED POOL			-				
Production curve for each zone For zones with no production I Data to support allocation met. Notification list of working, ro	mingled showing its spacing unit and for at least one year. (If not available istory, estimated production rates and or formula. eyalty and overriding royalty interests a or documents required to support co	e, attach explanation.) d supporting data. for uncommon interest cases.							
		ROVED POOLS							
		, the following additional information	will be requi	ired:					
List of all operators within the pro	nhole commingling within the propos cosed Pre-Approved Pools proposed Pre-Approved Pools were pr								
hereby certify that the inform		o the best of my knowledge and be	lief.						
SIGNATURE Pri	Caller TITLE	ENGINEER	DATE_	02/1	0/06				
ГҮРЕ OR PRINT NAME <u>B</u>	IAN COLLINS	TELEPHONE NO. (_	505	748-33	03				
E-MAIL ADDRESS eng	ineering@marbob.com								

'Submit 3 Copies To Appropri	ate District		State of No	ew Me	xico		Form C-103
District I		Energ	y, Minerals an	nd Natu	ral Resources		May 27, 2004
1625 N. French Dr., Hobbs, N	IM 88240					WELL API NO.	
District II		OIL CONSERVATION DIVISION				30-015-3446	52
1301 W. Grand Ave., Artesia, District III	NM 88210					5. Indicate Type	of Lease
1000 Rio Brazos Rd., Aztec.	NM 87410	1220 South St. Francis Dr.				STATE	FEE
District IV		Santa Fe, NM 87505				6. State Oil & G	as Lease No.
1220 S. St. Francis Dr., Santa	Fe, NM						
87505	DDV NOTE	CEC AND E	PROPER ON I	WELLS		7 1	TT 'A A A T
(DO NOT USE THIS FORM			REPORTS ON '			7. Lease Name of	or Unit Agreement Name
DIFFERENT RESERVOIR.						OD FEDERAL	
PROPOSALS.)		_		,	,	8. Well Number	
1. Type of Well: Oil W	vell 🗶	Gas Well [	Other			8. Well Number	3
2. Name of Operator					SECEIAED	9. OGRID Num	ber
			Y CORPORAT	ION	F-700C	14049	
3. Address of Operator		BOX 227			FEB 1 5 2006	10. Pool name o	
	ARTE	ESIA, NM	88211-022	ى 7؛	JU-MITTEDIA	RED LAKE GI	LORIETA/YESO NE
4. Well Location							
Unit Letter	0 :	990 f	feet from the	SOUTH	line and 23	10 feet fro	om the EAST line
Section 34			Township 17		inge 27E	NMPM EDDY	County NM
Section 54					RKB, RT, GR, etc.)	MINIPAL EDDI	County Nr
		i i . Elevai	.1011 ( <i>Show whei</i> *3596		KKD, KI, GK, etc.)		
Pit or Below-grade Tank App	nlication 🗆 o	r Closure	3370	- GR			e verte et de la constitue de la solitoria de l La constitue de la constitue d
]			- <b></b> 6	-4 f	natan mali Diata	6	.c
Pit typeDepth							riace water
Pit Liner Thickness:	mil	Below-G	rade Tank: Volun	ne	bbls; Cor	struction Material	
12.	Check A	Appropriate	e Box to Indi	cate N	ature of Notice, I	Report or Other	r Data
						•	
		TENTION			SUBS	SEQUENT RE	EPORT OF:
PERFORM REMEDIAL	WORK 🖂	PLUG ANI	D ABANDON		REMEDIAL WORK		ALTERING CASING
		1 200 /114	,				
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## State of New Mexico

DISTRICT I . 1626 N. PRENCH DR., HOBBS, NW 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION Submit to Appropriate District Office 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT.

API Number	Pool Code	Pool Name	Pool Name		
	96836	Red Lake; Glorieta Yeso, 1	Northeast		
Property Code		Well Number			
32848	. 0	3			
OGRID No.		Operator Name	Elevation		
14049	MARBOB EN	NERGY CORPORATION	3596'		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	34	1.7-S	27-E		990	SOUTH	2310	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
		İ							
Dedicated Acres	Joint o	r Infill Co	neolidation (	Code Or	der No.				
40		,							

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	ON A NON STANDARD CHIL	HAS BEEN APPRUVED BI IH	
		T	OPERATOR CERTIFICATION
			I hereby certify the the information contained herein is true and complete to the
			Signature Signature
		RECEIVED	Melanie J. Parker Printed Name
		FEB 1 5 2006	Land Department
	! 	QCU <del>'</del> AHTESIA	11/07/05 Date
	'		SURVEYOR CERTIFICATION
	TIC COORDINATES VAD 27 NME		I hereby certify that the well location shown on this plat was plotted from field notes of
	=649727.5 N =562192.5 E		actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.
	:32'47'09.60" N =104'15'53.85" W	' 	OCTOBER 18, 2005
LONG.		7-1-1	Date Surveyed LA  Signature Scal of // Date  Professional Surveyor
	3594.0' 3602	2310'	Manual J. Gosdan 10/24/05
		1	Certificate No. RONALD 4. STISON 3239

## Engineering Summary Form C-107A Application for Downhole Commingling

## Marbob Energy Corporation OD Federal No. 3 (Unit O, Sec. 34-T17S-R27E)

Marbob Energy proposes to downhole commingle the San Andres (Red Lake Q-GB-SA 51300) and the Yeso (Red Lake Glorieta Yeso, NE 96836) in the captioned well. This proposal is identical to the downhole comminglings that Devon Energy has done offsetting the captioned wells (Orders R-11363, DHC-2390, DHC-2685, DHC-2701).

No crossflow will occur because this well will be rod pumped in a pumped down condition. The MJ State No. 1 is currently completed in the Yeso and will be used as a "typical" Yeso well. The MJ State No. 2 is currently completed in the San Andres and will be used as a "typical" San Andres well. The proposed zonal allocation is described below.

Yeso: Production declines exponentially at 84%/yr. for one year, followed by 35%/yr. for oil and 32%/yr. for gas. (Best engineering estimate using the production history of nearby Devon wells.)

Qi = 90 bopd d=84%/yr.  
Q1yr = 14 bopd d=35%/yr.  
Qel = 1.5 bopd assumed  

$$EUR = \frac{-365 (90-14)}{\ln (1-.84)} + \frac{-365 (14-1.5)}{\ln (1-.35)} = 25.7 \text{ MBO}$$
Qi = 140 mcfd d=84%/yr.  
Q1yr = 22 mcfd d=32%/yr.  
Q1yr = 5 mcfd assumed  

$$EUR = \frac{-365 (140-22)}{\ln (1-.84)} + \frac{-365 (22-5)}{\ln (1-.32)} = 39.6 \text{ MMCF}$$

San Andres: Production declines exponentially at 80%/yr. for one year, followed by 24%/yr. for oil and 20%/yr. for gas. (Best engineering estimate using the production history of nearby Devon wells.)

EUR = 
$$\frac{-365 (145-29)}{\ln (1-.80)} + \frac{-365 (29-1.5)}{\ln (1-.24)} = 62.9 \text{ MBO}$$

EUR = 
$$\frac{-365 (180-36)}{\ln (1-.80)} + \frac{-365 (36-5)}{\ln (1-.20)} = 83.4 \text{ MMCF}$$



February 10, 2006

Bureau of Land Management 2909 W. 2<sup>nd</sup> St. Roswell, NM 88201

Attn: Mr. Armando Lopez

Re: Downhole Commingling Application

OD Federal #3 - Unit O, Sec. 34-T17S-R27E

Eddy County, New Mexico

Dear Mr. Lopez:

Enclosed is a copy of the downhole commingling application submitted to the NMOCD for the captioned well.

RECEIVED

FEB 1 5 2006

Please contact me at 505-748-3303 if you have any questions.

Sincerely,

**Brian Collins** 

Petroleum Engineer

Coller.

BC/dlw enclosure